```
? ds

Set     Items   Description
S1        143   POLYETHYLENE(W)GLYCOL(5N)PARTICLE??
S2        118   RD (unique items)
S3         61   S2 AND PY<=1994
S4         53   S3 AND PY<1994
S5         55   POLYETHYLENE(W)GLYCOL(2N)PARTICLE??
S6         44   RD (unique items)
S7         25   S6 AND PY<=1994
? s agglomera? or aggregat?
          19091  AGGLOMERA?
         281045  AGGREGAT?
      S8 298930  AGGLOMERA? OR AGGREGAT?
? s particle??
      S9 661148  PARTICLE??
? s s8 and s9
         298930  S8
         661148  S9
     S10  30901  S8 AND S9
? s reduc? or prevent?
Processing
        3051234  REDUC?
        1703953  PREVENT?
     S11 4440940 REDUC? OR PREVENT?
? s trehalose
     S12    8299  TREHALOSE
? s s10 and s12
          30901  S10
           8299  S12
     S13     31  S10 AND S12
? rd
>>>Duplicate detection is not supported for File 340.

>>>Records from unsupported files will be retained in the RD set.
...completed examining records
     S14     22  RD (unique items)
? s s14 and py<=1994
Processing
             22  S14
       25468457  PY<=1994
     S15      2  S14 AND PY<=1994
? t s15/3,k,ab/1-2

 15/3,K,AB/1     (Item 1 from file: 34)
DIALOG(R)File  34:SciSearch(R) Cited Ref Sci
(c) 2002 Inst for Sci Info. All rts. reserv.

03245811   Genuine Article#: NQ018   Number of References: 22
Title: FREEZE-DRYING OF LIPOSOMES WITH FREE AND MEMBRANE-BOUND
    CRYOPROTECTANTS - THE BACKGROUND OF PROTECTION AND DAMAGING PROCESSES
(Abstract Available)
Author(s): ENGEL A; BENDAS G; WILHELM F; MANNOVA M; AUSBORN M; NUHN P
Corporate Source: UNIV HALLE WITTENBERG,DEPT PHARM,WEINBERGWEG 15/D-06120
    HALLE//GERMANY/; UNIV HALLE WITTENBERG,DEPT CHEM/D-06108
    HALLE//GERMANY/
Journal: INTERNATIONAL JOURNAL OF PHARMACEUTICS, 1994, V107, N2 (JUL
    4), P99-110
ISSN: 0378-5173
Language: ENGLISH   Document Type: ARTICLE
Abstract: Studies of the protective effects of different amounts of sucrose
    and glucose and a carbohydrate directly linked to the liposome surface
    on large unilamellar vesicles (LUV) built from soybean
    phosphatidylcholine (SPC) during lyophilization were carried out.
```

Analyses of freeze-dried liposomes were conducted by **particle** size determination, retention of entrapped water-soluble marker and lipid mixing assay employing resonance energy transfer (RET). The extent of functionality of carbohydrates depends on their concentration and results from spacing mainly preventing fusion at low concentrations, membrane stabilization preventing leakage and the bulk sugar matrix mainly depressing **aggregation** at higher concentrations. By incorporating hexadecyl-beta-D-galactopyranoside in SPC-LUV as membrane-bound cryoprotectant it could be shown that fixation of the sugar head of galactosides at the membrane surface only leads to prevention of fusion of liposomes. Although the galactoside does not exhibit a membrane stabilizing effect alone, it improves the protective effects of the free carbohydrates hyperadditively. However, this fact is discussed on the basis of sugar-sugar interactions by means of hydrogen bonding.

, **1994**
...Abstract: phosphatidylcholine (SPC) during lyophilization were carried out. Analyses of freeze-dried liposomes were conducted by **particle** size determination, retention of entrapped water-soluble marker and lipid mixing assay employing resonance energy...

...fusion at low concentrations, membrane stabilization preventing leakage and the bulk sugar matrix mainly depressing **aggregation** at higher concentrations. By incorporating hexadecyl-beta-D-galactopyranoside in SPC-LUV as membrane-bound...
...Identifiers--FLUORESCENCE ENERGY-TRANSFER; LARGE UNILAMELLAR VESICLES; PHASE-BEHAVIOR; FUSION; DEHYDRATION; STABILIZATION; **TREHALOSE**; SUGARS; WATER

15/3,K,AB/2 (Item 1 from file: 340)
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 2241047 IFI Acc No: 9208742
Document Type: C
IMMUNOASSAY INCLUDING LYOPHILIZED REACTANT MIXTURE; OF IMMUNOREACTIVE COMPONENT, AN ORGANIC PERFORMANCE ENHANCER AND A SUGAR TO PREVENT **AGGLOMERATION**; HOMOGENEITY, SHELF LIFE
Inventors: Cole Francis X (US)
Assignee: Hygeia Sciences Inc
Assignee Code: 20423
Publication (No,Date), Applic (No,Date):
US 5102788 **19920407** US 89344575 19890428
Publication Kind: A
Calculated Expiration: 20090407
(Cited in 005 later patents)
Continuation Pub(No),Applic(No,Date): ABANDONED US 85747605 19850624
Cont.-in-part Pub(No),Applic(No,Date): US 4931385 US 88275656 19881121
Priority Applic(No,Date): US 89344575 19890428; US 85747605 19850624; US 88275656 19881121

Abstract: A lyophilized mixture of reactants for an immunoassay includes antibody-gold sol **particle** conjugates, antibody latex **particle** conjugates, polyethylene glycol, a polyethylene glycol pisooctylphenyl ether detergent and a sugar such as dextrin or **trehalose**. The polyethylene glycol is present to enhance binding of the immunoreactants and the polyethylene glycol pisooctylphenyl ether detergent is present to prevent non-specific interactions. The sugar prevents **agglomeration** of the polyethylene glycol and polyethylene glycol p-isooctylphenyl ether in the lyophilized mixture at room temperature and facilitates retention of

a homogenous distribution of the ingredients of the mixture to thereby enhance shelf life and redistribution of the mixture in an aqueous test system.

...OF IMMUNOREACTIVE COMPONENT, AN ORGANIC PERFORMANCE ENHANCER AND A SUGAR TO PREVENT **AGGLOMERATION**; HOMOGENEITY, SHELF LIFE
Publication (No,Date), Applic (No,Date):
...**19920407**

Abstract: A lyophilized mixture of reactants for an immunoassay includes antibody-gold sol **particle** conjugates, antibody latex **particle** conjugates, polyethylene glycol, a polyethylene glycol pisooctylphenyl ether detergent and a sugar such as dextrin or **trehalose**. The polyethylene glycol is present to enhance binding of the immunoreactants and the polyethylene glycol pisooctylphenyl ether detergent is present to prevent non-specific interactions. The sugar prevents **agglomeration** of the polyethylene glycol and polyethylene glycol p-isooctylphenyl ether in the lyophilized mixture at...

Exemplary Claim: ...enhances the performance of the immunoassay by its presence; and a sugar comprising dextrin or **trehalose**, said sugar being present in said mixture in sufficient quantity to prevent **agglomeration** of the organic component and thus maintain the homogeneity of the mixture to thereby facilitate...
?

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? ds

Set      Items   Description
S1         143   POLYETHYLENE(W)GLYCOL(5N)PARTICLE??
S2         118   RD (unique items)
S3          61   S2 AND PY<=1994
S4          53   S3 AND PY<1994
S5          55   POLYETHYLENE(W)GLYCOL(2N)PARTICLE??
S6          44   RD (unique items)
S7          25   S6 AND PY<=1994
S8      298930   AGGLOMERA? OR AGGREGAT?
S9      661148   PARTICLE??
S10      30901   S8 AND S9
S11    4440940   REDUC? OR PREVENT?
S12       8299   TREHALOSE
S13         31   S10 AND S12
S14         22   RD (unique items)
S15          2   S14 AND PY<=1994
? s agar?
     S16  122706  AGAR?
? s s8 and s16
          298930  S8
          122706  S16
     S17    2243  S8 AND S16
? s s17 and s12
            2243  S17
            8299  S12
     S18       8  S17 AND S12
? rd
>>>Duplicate detection is not supported for File 340.
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03245811 Genuine Article#: NQ018 Number of References: 22
Title: FREEZE-DRYING OF LIPOSOMES WITH FREE AND MEMBRANE-BOUND CRYOPROTECTANTS - THE BACKGROUND OF PROTECTION AND DAMAGING PROCESSES (Abstract Available)
Author(s): ENGEL A; BENDAS G; WILHELM F; MANNOVA M; AUSBORN M; NUHN P
Corporate Source: UNIV HALLE WITTENBERG,DEPT PHARM,WEINBERGWEG 15/D-06120 HALLE//GERMANY/; UNIV HALLE WITTENBERG,DEPT CHEM/D-06108 HALLE//GERMANY/
Journal: INTERNATIONAL JOURNAL OF PHARMACEUTICS, **1994**, V107, N2 (JUL 4), P99-110
ISSN: 0378-5173
Language: ENGLISH Document Type: ARTICLE
Abstract: Studies of the protective effects of different amounts of sucrose and glucose and a carbohydrate directly linked to the liposome surface on large unilamellar vesicles (LUV) built from soybean phosphatidylcholine (SPC) during lyophilization were carried out. Analyses of freeze-dried liposomes were conducted by **particle** size determination, retention of entrapped water-soluble marker and lipid mixing assay employing resonance energy transfer (RET). The extent of functionality of carbohydrates depends on their concentration and results from spacing mainly preventing fusion at low concentrations, membrane stabilization preventing leakage and the bulk sugar matrix mainly depressing **aggregation** at higher concentrations. By incorporating hexadecyl-beta-D-galactopyranoside in SPC-LUV as membrane-bound cryoprotectant it could be shown that fixation of the sugar head of galactosides at the membrane surface only leads to prevention of fusion of liposomes. Although the galactoside does not exhibit a membrane stabilizing effect alone, it improves the protective effects of the free carbohydrates hyperadditively. However, this fact is discussed on the basis of sugar-sugar interactions by means of hydrogen bonding.

, **1994**
...Abstract: phosphatidylcholine (SPC) during lyophilization were carried out. Analyses of freeze-dried liposomes were conducted by **particle** size determination, retention of entrapped water-soluble marker and lipid mixing assay employing resonance energy...

...fusion at low concentrations, membrane stabilization preventing leakage and the bulk sugar matrix mainly depressing **aggregation** at higher concentrations. By incorporating hexadecyl-beta-D-galactopyranoside in SPC-LUV as membrane-bound...
...Identifiers--FLUORESCENCE ENERGY-TRANSFER; LARGE UNILAMELLAR VESICLES; PHASE-BEHAVIOR; FUSION; DEHYDRATION; STABILIZATION; **TREHALOSE;**

Dialog Acc No: 0741109 IFI Acc No: 7225033
Document Type: C
PROCESS FOR THE PREPARATION OF WATER-SOLUBLE TABLETS
Inventors: IMASEKI ISUMI (N/A); NAGASAWA MICHIO (N/A); TSUMURA JUSHA (N/A)
Assignee: ISUMURA JUNTENDO CO., LTD.
Assignee Code: 43506
Publication (No,Date), Applic (No,Date):
Publication (Kind,No,Date), Applic (No,Date):
US 3692896 **19720919** US 71120709 19710303
Publication Kind: A
Calculated Expiration: 19890919
(Cited in 008 later patents)
Cont.-in-part Pub(No),Applic(No,Date): ABANDONED US 68783716 19681213
Priority Applic(No,Date): JP 6840601 19680614

Abstract: There is provided, a process for the preparation of quickly dissolving water-soluble, clear, aqueous solution forming tablets, which comprises: (A) DIRECTLY COMPRESSING BY MEANS OF A SINGLE PUNCHING TABLET MACHINE, HAVING AN UPPER PUNCH AND A LOWER PUNCH, A MIXTURE OBTAINED BY MIXING POWDER OR POWDERS OF WATER-SOLUBLE MAIN INGREDIENTS WITH SUPERMICRO **PARTICLE** POWDERED **POLYETHYLENE GLYCOL** 4,000, 6,000, AND MIXTURES THEREOF, AS THE ESSENTIAL DIRECT COMPRESSION TABLET LUBRICANT, WITH REQUIRED WATER-SOLUBLE CONVENTIONAL TABLET DILUENTS, BINDERS, AND DISINTEGRANTS, AND (B) SUBSEQUENTLY, EJECTING THE TABLETS THUS PRODUCED FROM SAID MACHINE, THE IMPROVEMENT WHICH COMPRISES COMPRESSING WITH THE UPPER PUNCH WITH AN UPPER PUNCH PRESSURE OF 2,000 Kg., while maintaining said upper punch and said lower punch at a pressure sufficient to create a transmission value to the fixed lower punch of greater than 85, which value is derived from the following formula:

7/3,K,AB/23 (Item 5 from file: 340)
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1412241 IFI Acc No: 8213295
Document Type: C
WATER-SOLUBLE TABLET
Inventors: DAUNORA LOUIS G (US)
Assignee: MILES INC
Assignee Code: 55496
Publication (No,Date), Applic (No,Date):
US 4347235 **19820831** US 81299122 19810903
Publication Kind: A
Calculated Expiration: 20010903
Document Type: EXPIRED Document Type: CERTIFICATE OF CORRECTION
Certificate of Correction Date: 19831011
Priority Applic(No,Date): US 81299122 19810903

Abstract: An improved water-soluble tablet is disclosed. The tablet includes sodium propionate or a combination of sodium propionate and polyethylene glycol.

Publication (No,Date), Applic (No,Date):
...**19820831**
Non-exemplary Claims: ...8. A tablet as claimed in claim 5 wherein the sodium propionate and **polyethylene glycol** have a **particle** size of from about 50 to 250 microns.

ialog Acc No: 2218960 IFI Acc No: 9201617
Document Type: C
SOLID PHARMACEUTICAL DOSAGE IN TABLET TRITURATE FORM AND METHOD OF PRODUCING SAME; TASTE, CARBOHYDRATE AND TRIGLYCERIDE
Inventors: Van Scoik Kurt G (US)
Assignee: Abbott Laboratories
Assignee Code: 00152
Publication (No,Date), Applic (No,Date):
US 5082667 **19920121** US 91689120 19910422
Publication Kind: A
Calculated Expiration: 20090121
(Cited in 013 later patents)
Continuation Pub(No),Applic(No,Date): ABANDONED US 89352799 19890518
Cont.-in-part Pub(No),Applic(No,Date): ABANDONED US 88203396 19880607
Priority Applic(No,Date): US 91689120 19910422; US 89352799 19890518; US 88203396 19880607

Abstract: A solid pharmaceutical dosage in tablet triturate form is disclosed. The tablet triturate form includes a cementatory network constituted by a water-soluble but ethanol-insoluble carbohydrate. Also included are discrete particles of a solid, water-soluble but triglyceride-insoluble active ingredient, a polymer, an emulsifier, and sodium bicarbonate wherein the discrete particles have a triglyceride coating.

Publication (No,Date), Applic (No,Date):
...**19920121**
Non-exemplary Claims: ...solid pharmaceutical dosage in tablet triturate form which rapidly dissolves upon oral administration, comprising discrete **particles** comprising estazolam, **polyethylene glycol** of molecular weight 300, sodium bicarbonate and lecithin in a weight ratio of about 5...

7/3,K,AB/14 (Item 5 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

02148293 Genuine Article#: KE074 Number of References: 31
Title: BENEFICIATION OF PU RESIDUES BY ULTRAFINE GRINDING AND AQUEOUS BIPHASIC EXTRACTION (Abstract Available)
Author(s): CHAIKO DJ; MENSAHBINEY R; MERTZ CJ; ROLLINS A
Corporate Source: ARGONNE NATL LAB,DIV CHEM TECHNOL/ARGONNE//IL/60439; NO ILLINOIS UNIV,DEPT CHEM/DE KALB//IL/60115
Journal: SEPARATION SCIENCE AND TECHNOLOGY, **1993**, V28, N1-3, P765-780
ISSN: 0149-6395
Language: ENGLISH Document Type: ARTICLE
Abstract: Aqueous biphase systems are heterogeneous liquid/liquid systems that result from appropriate combinations of inorganic salts and water-soluble polymers such as **polyethylene glycol**. Colloid-size **particles** that are suspended in an aqueous biphase system will partition to one of the phases, depending on a complex balancing of particle interactions with the surrounding solvent. With regard to waste treatment applications. aqueous biphase systems are similar to conventional solvent extraction but do not utilize an organic diluent. which may itself become a source of pollution. In addition, the water-soluble polymers that have been used in biphase formation are inexpensive. nontoxic, and biodegradable. The application of aqueous biphasic extraction to the beneficiation of plutonium residues will be discussed.